# HiTrap Albumin and IgG Depletion

## Product Information

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| **Cat#No#** | Hi-368C |

**Product Overview**

HiTrap Albumin and IgG Depletion is a prepacked columns for the depletion of albumin and IgG from human serum and plasma. The columns are prepacked with high performance SepharoseTM based resins with an affinity for human serum albumin (HSA) and IgG:
HiTrap Albumin and IgG Depletion is a prepacked column for the depletion of albumin and IgG from human serum or plasma.
HiTrap Albumin and IgG Depletion column provides rapid and easy processing in a convenient format for handling larger sample volumes (~150 µl) using a liquid chromatography system or manually using a syringe.
Columns are prepacked with high performance Sepharose based resin with an affinity for human serum albumin (HSA) and IgG.
High depletion capacity, removes > 95% HSA and > 90% IgG, with high reproducibility.
Simple and fast procedure.
Removal of albumin and IgG allows a higher load of less abundant proteins to be included in the analysis and detection of more proteins.

**Description**

HiTrap Albumin and IgG Depletion and Albumin and IgG Depletion SpinTrap are prepacked columns for the depletion of albumin and IgG from human serum and plasma. The columns are prepacked with high performance Sepharose based media with an affinity for human serum albumin (HSA) and IgG. These columns are members of the Trap platform and address the need for flexible, small-scale preparation of protein samples prior to downstream analyses such as 1-D or 2-D gel electrophoresis and mass spectrometry.

**Characteristic**

High depletion capacity, removes > 95% albumin and > 90% IgG, with high reproducibility.
Removal of albumin and IgG allows a higher load of less abundant proteins to be included in the analysis and detection of more proteins.
Simple and fast procedure.

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CREATIVE BIOMART®
Chromatography

# HiTrap Albumin and IgG Depletion

HiTrap Albumin and IgG Depletion provides rapid and easy processing in a convenient format for handling larger sample volumes (~150 µl) using a liquid chromatography system or manually using a syringe. Albumin and IgG Depletion SpinTrap handles smaller sample volumes (~50 µl) using a tabletop centrifuge.

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| **Applications** |
| Sample volume of up to 150 µl undiluted human plasma results in more than 95% albumin depletion and more than 90% IgG depletion. |
| **Sample Loading Volume** |
| 150 µl undiluted human plasma |
| **Maximum operating pressure** |
| 5 bar [0.5 MPa] (70 psi) |
| **Sample preparation** |
| No dilution of the human plasma is required. Filter the human plasma through a 0.45 or 0.22 µm filter shortly before applying it to the column. |
| **Column** |
| Polypropylene barrel and polyethylene frits |
| **Matrix** |
| Highly cross-linked 6% agarose |
| **Average particle size** |
| 34 µm |
| **Ligand** |
| Recombinant Protein G fragment and recombinant protein binding HAS. |
| **Recommended flow rate** |
| 1 ml/min |
| **Recommended column height** |
| 25 mm |

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# HiTrap Albumin and IgG Depletion

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| **pH working range** |
| 3 to 9 |
| **CIP stability** |
| 2 to 9 |
| **Storage** |
| 2 - 8°C, 20% Ethanol |
| **Binding buffer** |
| 20 mM sodium phosphate, 0.15 M NaCl, pH 7.4. |
| **Elution buffer** |
| 0.1 M glycin-HCl, pH 2.7. |
| **Cleaning-in-place** |
| The column can be used for a limited number of depletion runs. If cross-contamination between samples needs to be prevented a cleaning-in-place can be performed. Wash with 5 ml 70% ethanol and re-equilibrate with 10 ml binding buffer. |
| **Pack size** |
| 2 × 1 mL |
| **Maximum flow velocity** |
| 4 ml/min |
| **Dimensions** |
| 7 × 25 mm |
| **Column volume** |
| 1 ml |
| **Column i.d.** |
| 7 mm |

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